POWER OF ATTORNEY FOR PATENT APPLICATIONS

Under CFR § 3.73(b), Collision Technology, LLC, a corporation, hereby certifies that it is the Assignee of the entire right, title, and interest in and to the patent applications listed below. Each of the patent applications listed below is assigned to Collision Technology, LLC. As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of title from the original owner to the Assignee was submitted for recordation pursuant to 37 CFR 3.11 as shown in the Reel/Frame numbers listed below.

Filing Date	Application Serial No.; Patent No. (if issued)	Title	Reel/Frame
10/03/2003	10/678,203; 6,831,574	MULTI-TURBO MULTI-	014073/0269
		USER DETECTOR	026190/0812
04/05/2004	10/818,536; 6,967,598	REDUCED COMPLEXITY	014525/0140
		MULTI-TURBO MULTI-	026190/0812
		USER DETECTOR	
03/24/2005	10/529,019; 7,599,346	BANDWIDTH-	016520/0107
		EFFICIENT WIRELESS	026190/0812
		NETWORK MODEM	026193/0661
08/27/2009	12/548,502	BANDWIDTH EFFICIENT	026190/0812
		WIRELESS NETWORK	
		MODEM	
02/03/2004	10/486,004; 7,486,722	BANDWIDTH EFFICIENT	013771/0874
		CABLE NETWORK	014405/0749
		MODEM	026190/0812
			026193/0661
02/11/2004	10/486,871; 7,245,673	WINDOWED	013816/0233
		MULTIUSER	015656/0249
		DETECTION	026190/0812
			026193/0661
12/21/2004	10/497,556; 7,126,533	DIRECTION-FINDING	014737/0931
		FOR MULTIPLE	013824/0323
		COCHANNEL SOURCES	026190/0812
			026193/0661
04/19/2005	10/531,772; 7,463,703	JOINT SYMBOL,	015999/0543
		AMPLITUDE, AND RATE	026190/0812
		ESTIMATOR	026193/0661
10/15/2008	12/251,571; 7,590,203	JOINT SYMBOL,	021690/0566
		AMPLITUDE, AND RATE	026190/0812
		ESTIMATOR	
10/15/2008	12/251,575; 7,583,757	JOINT SYMBOL,	021690/0608
		AMPLITUDE, AND RATE	026190/0812
		ESTIMATOR	
06/25/2009	12/491,332; 7,920,651	JOINT SYMBOL,	022879/0419
		AMPLITUDE, AND RATE	026190/0812

		ESTIMATOR	
12/23/2003	10/482,599; 7,428,261	CROSS-SYSTEM	013823/0522
		INTERFERENCE	014271/0189
		CANCELLATION FOR	026190/0812
		MULTICARRIER CDMA	026193/0661
		AND OFDM	
12/01/2005	11/291,883; 7,593,473	TREE STRUCTURED	016887/0516
		MULTICARRIER	026190/0812
	·	MULTIPLE ACCESS	
		SYSTEMS	
12/01/2005	11/202 222 7 917 754	NAT CODUCTO A BUTTLE	017000/01/0
12/01/2005	11/292,233; 7,817,754	M-ALGORITHM WITH	017098/0162
		PRIORITIZED USER	026190/0812
04/10/0000	11/400 000 5 500 440	ORDERING	018602/0188
04/10/2006	11/400,922; 7,783,110	SEMICOHERENT	017623/0177
00/10/2006	11/4/2 000 00 00 00	CHANNEL ESTIMATOR	026190/0812
08/10/2006	11/463,877; 7,613,228	M-ALGORITHM	018151/0479
		MULTIUSER DETECTOR	026190/0812
		WITH CORRELATION	
00/45/0006	11/520 105 7 502 405	BASED PRUNING	010000/0474
09/15/2006	11/532,125; 7,593,492	COMBINATIONAL	018272/0171
00/10/0000	12/520 (01	HYBRID TURBO-MUD	026190/0812
08/12/2009	12/539,691	METHOD FOR	023099/0858
		SIMULTANEOUS	026190/0812
		DETECTION OF A	
		PLURALITY OF RFID	
		TAGS USING	
		MULTIUSER	
05/12/2010	12/742 (9/	DETECTION	025570/0117
05/13/2010	12/742,686	MEDIA ACCESS CONTROL PROTOCOL	025578/0117
			024673/0287
		FOR MULTIUSER	026190/0812
		DETECTION ENABLED	
		AD-HOC WIRELESS	
07/04/0002	10/696 146, 7 010 600	COMMUNICATIONS	012050/0724
07/24/2003	10/626,146; 7,218,690	HYBRID TURBO-MUD	013859/0734
		FOR MULTIPLE ACCESS	026190/0812
04/11/2002	10/120 055: 6 047 506	SYSTEMS METHOD AND	013095/0631
04/11/2002	10/120,955; 6,947,506	APPARATUS FOR	013093/0631
		IMPROVED TURBO	020190/0812
		MULTIUSER DETECTOR	
01/22/2002	10/055 155- 6 920 200		012540/0660
01/23/2002	10/055,155; 0,839,590		1
	*	1	020190/0812
01/23/2002	10/055,155; 6,839,390	VOTING SYSTEM FOR IMPROVING THE PERFORMANCE OF SINGLE-USER	012540/0669 024907/0140 026190/0812

		DECODERS WITHIN AN ITERATIVE MULTI-USER DETECTION SYSTEM	
11/12/2004	10/987,140; 7,350,136	VOTING SYSTEM FOR IMPROVING THE PERFORMANCE OF SINGLE-USER DECODERS WITHIN AN ITERATIVE MULTI-USER DETECTION SYSTEM	026190/0812
07/29/2002	10/208,409; 6,704,376	POWER AND CONFIDENCE ORDERED LOW COMPLEXITY SOFT TURBOMUD WITH VOTING SYSTEM	013020/0053 026190/0812
06/08/2004	10/863,081; 7,092,464	MULTIUSER DETECTION WITH TARGETED ERROR CORRECTION CODING	014778/0014 026190/0812
03/25/2002	10/105,918; 7,110,439	SYSTEM FOR DECREASING PROCESSING TIME IN AN ITERATIVE MULTI- USER DETECTOR SYSTEM	012744/0987 026190/0812
04/25/2003	10/423,695; 7,190,747	FREQUENCY MISMATCH COMPENSATION FOR MULTIUSER DETECTION	013676/0030 026190/0812
04/25/2003	10/423,740; 7,092,452	CO-CHANNEL INTERFERENCE RECEIVER	013674/0904 026190/0812
07/29/2002	10/207,490; 7,190,743	METHOD AND APPARATUS FOR OPTIMIZING TREE PRUNING IN A MULTIUSER DETECTOR	013198/0060 026190/0812
04/16/2003	10/414,738; 7,269,223	SYSTEM AND METHOD FOR INCREASING THROUGHPUT IN A MULTIUSER DETECTION BASED MULTIPLE ACCESS	013633/0069 026190/0812

		COMMUNICATIONS	
		SYSTEM	
02/14/2005	11/057,479; 7,724,851	RECEIVER WITH	016000/0309
		MULTIPLE	026190/0812
		COLLECTORS IN A	
		MULTIPLE USER	
		DETECTION SYSTEM	
04/29/2002	10/134,330; 6,981,203	METHOD AND	012877/0237
		APPARATUS FOR	013129/0802
		RANDOM SHUFFLED	026190/0812
		TURBO MULTIUSER	
		DETECTOR	
04/25/2003	10/423,655; 7,218,665	DEFERRED	013633/0393
0.1.20,2005	10/ 125,055, 7,210,000	DECORRELATING	025710/0043
		DECISION-FEEDBACK	026190/0812
		DETECTOR FOR	020130,0012
		SUPERSATURATED	
		COMMUNICATIONS	
04/24/2003	10/422,340; 6,954,482	SOFT-DECISION	013643/0771
0	10, 122,5 10, 5,50 1, 102	TRELLIS-CODED	026190/0812
		DIFFERENTIAL	02013010012
		FREQUENCY-HOPPED	
		SPREAD SPECTRUM	
		(DFHSS)	
04/22/2005	10/482,598; 6,999,498	MULTIUSER	013904/0597
4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DETECTION AIDED	014293/0674
		MULTIPLE ACCESS	026190/0812
	Constitution of the Consti	DIFFERENTIAL	026193/0661
		FREQUENCY-HOPPED	
		SPREAD SPECTRUM	
04/19/2004	10/827,462; 7,376,171	MULTIUSER	014602/0733
	7 2 2-1-9-1-	DETECTION AIDED	026190/0812
		MULTIPLE ACCESS	
		DIFFERENTIAL M-ARY	
		CODING APPLICATIONS	
09/10/2003	10/659,567; 7,236,546	PIPELINED TURBO	014002/0447
		MULTIUSER	026190/0812
		DETECTION	
08/07/2001	09/923,709; 7,058,422	METHOD FOR	012100/0995
		OVERUSING	026190/0812
		FREQUENCIES TO	
		PERMIT	
•		SIMULTANEOUS	
	· · · · · · · · · · · · · · · · · · ·	TRANSMISSION OF	
	vi.	SIGNALS FROM TWO OR	
	\	MORE USERS ON THE	1

·		SAME FREQUENCY AND TIME SLOT	
08/31/2001	09/943,770; 6,947,505	SYSTEM FOR PARAMETER	012151/0553 026190/0812
		ESTIMATION AND	
		TRACKING OF	
		INTERFERING	
		DIGITALLY	
		MODULATED SIGNALS	
04/16/2003	10/414,784; 6,985,699	EFFICIENT AND	013633/0018
		OPTIMAL CHANNEL	026190/0812
		ENCODING AND	
		CHANNEL DECODING	
		IN A MULTIPLE ACCESS	
		COMMUNICATIONS	
04/10/2022	10/10/10/10/10/10/10/10/10/10/10/10/10/1	SYSTEM	010 (70 /077
04/18/2002	10/125,241; 7,233,620	BANDWIDTH-	012670/0320
		EFFICIENT WIRELESS	026190/0812
0.6/20/2002	10/17/ 011 7 200 103	NETWORK MODEM	012101/0058
06/20/2002	10/176,011; 7,200,103	REDUCED ALGORITHM	013191/0058
06/00/0000	10/177 (02 7 120 224	RECEIVER	026190/0812
06/20/2002	10/175,693; 7,139,334	COOPERATIVE CODE-	013192/0370
		ENHANCED MULTI-	013194/0865
		USER COMMUNICATIONS	026190/0812
		SYSTEM	
08/26/2002	10/228,787; 6,947,502	PARAMETER	013198/0089
06/20/2002	10/220,787, 0,947,302	ESTIMATOR FOR A	026190/0812
		MULTIUSER	020190/0812
		DETECTION RECEIVER	
09/20/2002	10/251,187; 6,826,140	MULTICHANNEL	013147/0391
09/20/2002	10,251,10,7,0,020,110	DIGITAL RECORDING	026190/0812
		SYSTEM WITH MULTI-	02019070012
		USER DETECTION	
06/30/2004	10/497,557; 7,126,890	MULTITRACK	014764/0397
		READBACK AND	014052/0594
		MULTIUSER	026190/0812
		DETECTION FOR DISK	026193/0661
		DRIVES	
08/27/2010	12/869,875	QR-RLS ADAPTIVE	024974/0911
		DIGITAL FILTER WITH	026190/0812
		18-BIT PIPELINE	026193/0661
		ARCHITECTURE	
04/20/2011	13/090,435	DISTRIBUTED	026155/0754
		SCHEDULER DESIGN	026190/0812
		FOR MULTIUSER	026193/0661

		DETECTION ENABLED	
		WIRELESS MOBILE AD	
		HOC NETWORKS	
01/31/2011	13/017,819	MULTIUSER	026126/0450
		DETECTION ENABLED	026190/0812
		MEDIUM ACCESS	026193/0661
		CONTROLE IN MOBILE	
		AD HOC NETWORKS	
02/23/2011	12/932,318	POWER AWARE	025895/0099
		SCHEDULING AND	026190/0812
		POWER CONTROL	026193/0661
		TECHNIQUES FOR	
		MULTIUSER	
		DETECTION ENABLED	
		WIRELESS AD-HOC	
***		NETWORKS	

The undersigned, acting as the Assignee, hereby revokes all prior powers of attorney, if applicable, and
appoints the practitioners associated with the customer number 79683 as my/our attorney(s) or agent(s) to
prosecute the patent(s) and/or patent application(s) and transact all business in the United States Patent
and Trademark Office connected therewith.

By:

Jared Fry

Member, Collision Technology, LLC

Date: 8/13/2011

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